

Contextualisation et Visualisation Sémantiques dans Europeana

Nouveaux modes d'accès à l'information
réseaux, sens, images, sons, odorat, sensations ...

iExpo 2010 Atelier A3 / 09/06/2010

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Le menu



- Introduction
- Contextualisation sémantique dans Europeana
 - Europeana Thoughtlab
 - Europeana Data Model (EDM)
- Visualisation spatio-temporelle
 - Visual understanding Environment (VUE)
 - L'expérience Europeana4D



Nouveaux modes pour ...

- ... accéder l'information??? Là n'est pas le problème ...
- ... organiser l'information?? Non plus, pas vraiment ...
- ... sélectionner l'information? Plus chaud ...
- ... contextualiser l'information!
 - La transformer en connaissance!
- Voilà la mission d'[Europeana](#) (avec plus de détails en P4)
- 'contexte'
 - nom masculin
 - (latin contextus, assemblage)
 - « Ensemble des conditions naturelles, sociales, culturelles dans lesquelles se situe un énoncé, un discours. » (Larousse)

Catégories contextuelles

■ Ranganathan:

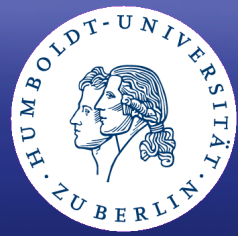
- **Espace (« where »)**
- **Temps (« when »)**
- **Sujet / concept (« what », la « Personnalité » de Ranganathan)**

■ BLISS

- **acteur (« who »)**
- **entité**
- espèce
- **partie**
- qualité
- matériel
- **procès**
- opération
- patient
- produit
- sous-produit

Un Exemple Thoughtlab (VU Amsterdam)

Un Exemple: Thoughtlab (1)




search

http://eculture.cs.vu.nl/europeana/session/search

Marlies Olensky




login | help | English



This is a **research prototype** of Europeana's semantic search engine.
Enter a search term, for example: **Egypt**, **Rembrandt**, **window**.

search

Collections Thesauri

Collection	Artworks	
 Rijksmuseum 46,038 artworks	 RKD 82,781 artworks	 Louvre 11,327 artworks

home disclaimer datacloud acknowledgments

powered by **ClioPatria** 1.0 beta 2 (18/12/2008)
SWI Prolog 5.7.5-85-gc57ab80
eculture.cs.vu.nl

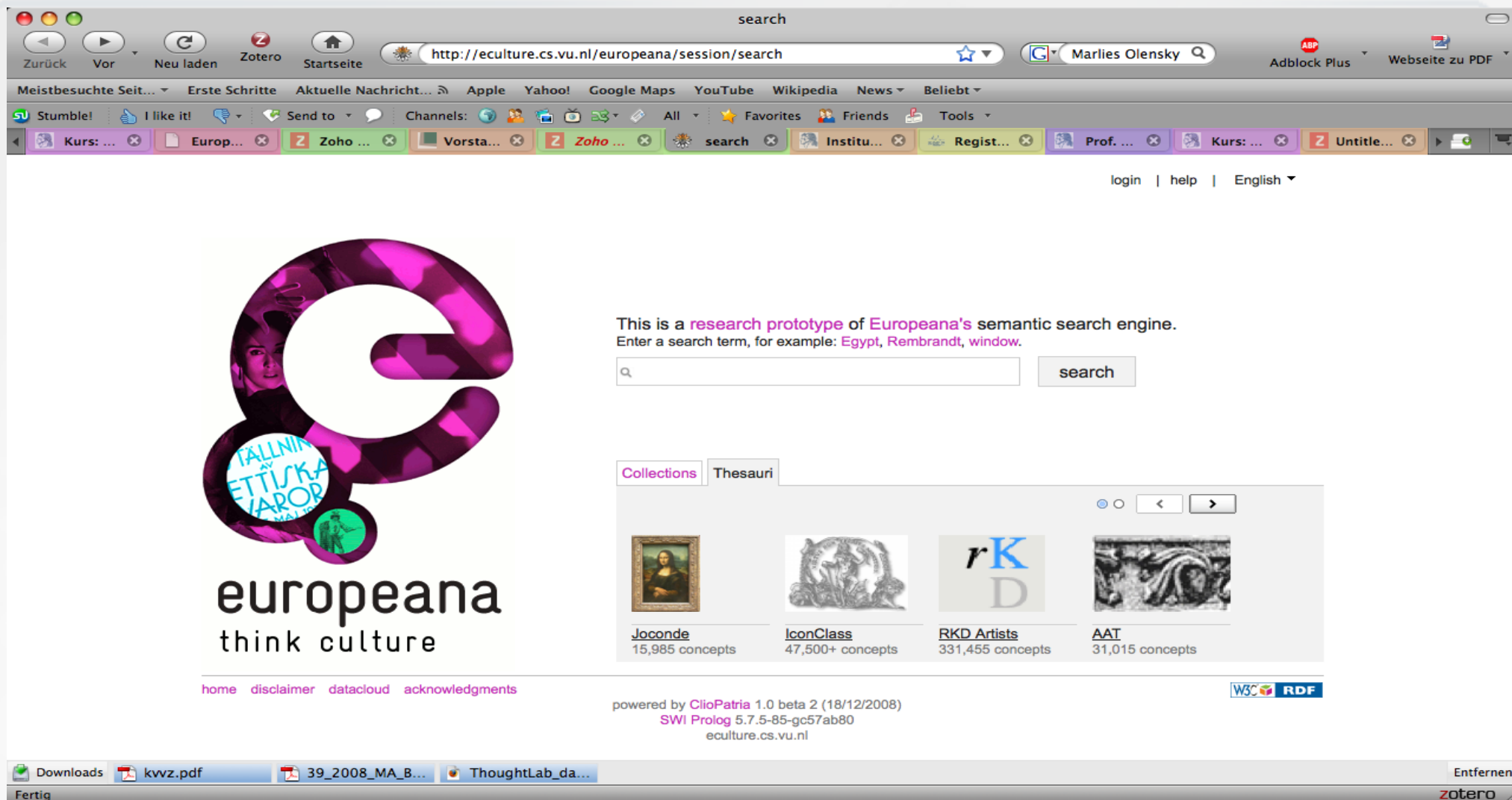
W3C RDF

Downloads kvvz.pdf 39_2008_MA_B... ThoughtLab_da... Entfernen

Fertig zotero



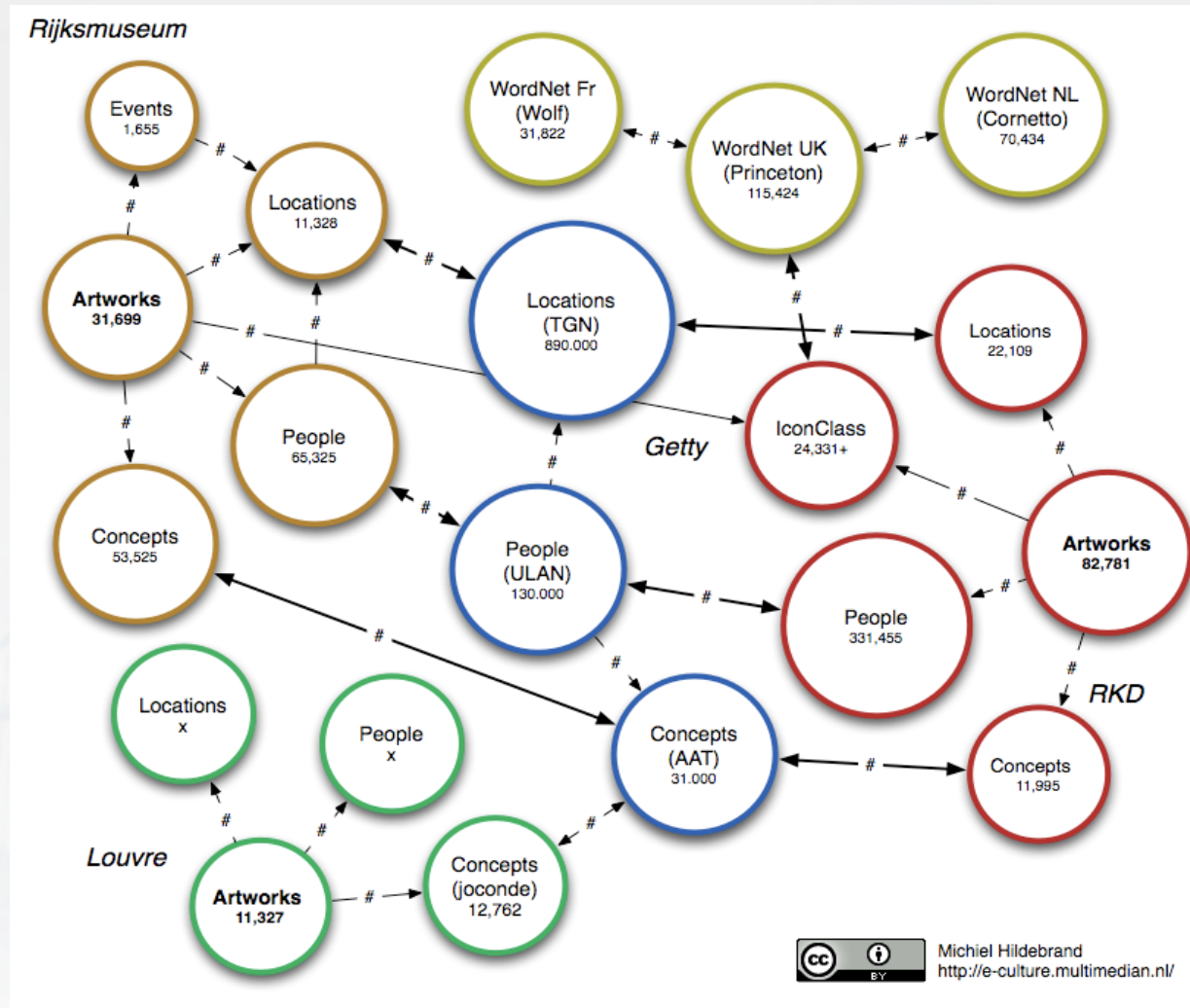
Un Exemple (2)



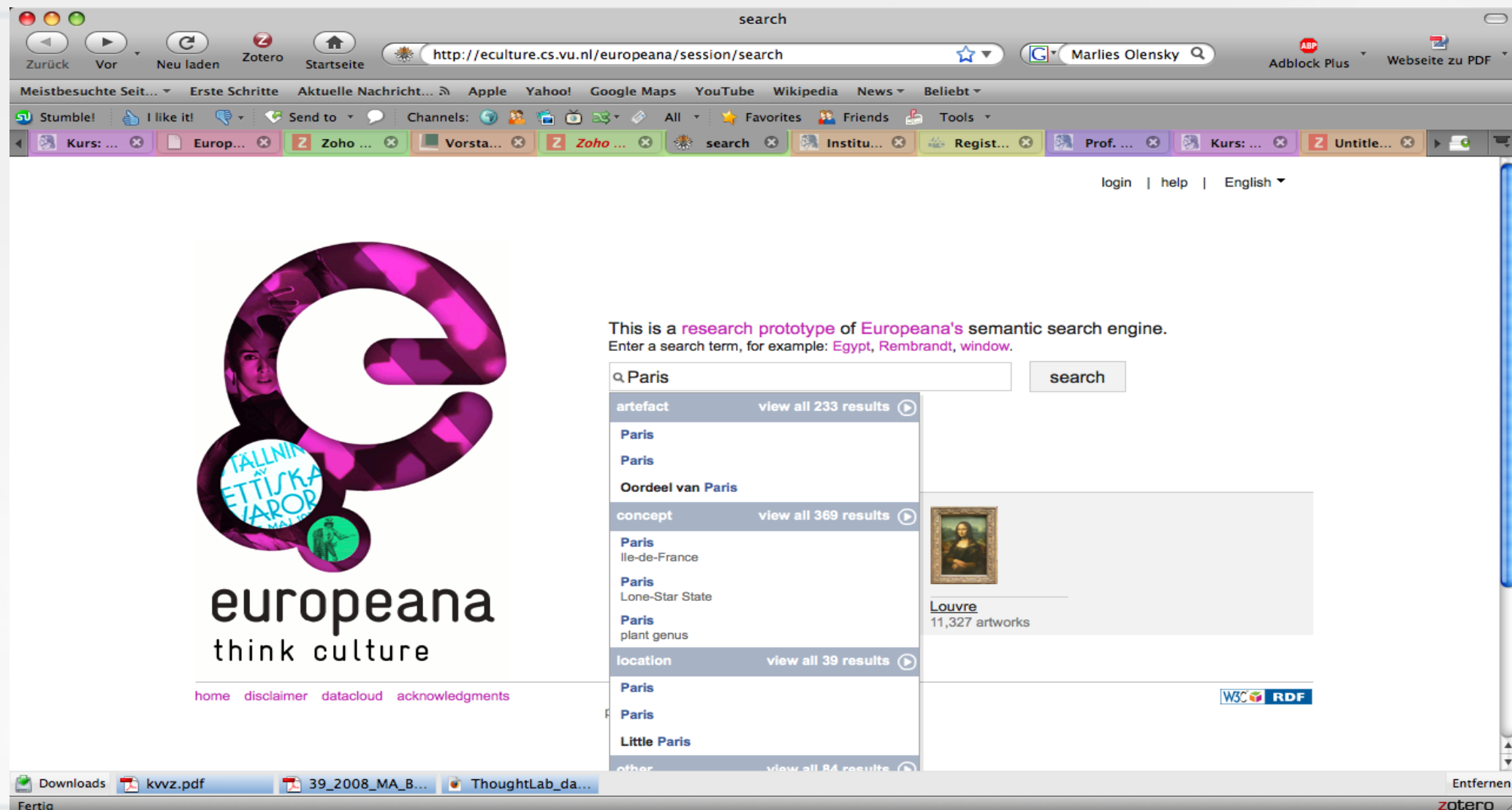
The screenshot shows a web browser window displaying the Europeana search engine interface. The browser's address bar shows the URL `http://eculture.cs.vu.nl/europeana/session/search`. The page features a large, stylized purple 'e' logo with the text 'europeana think culture' below it. To the right of the logo, there is a search bar with the placeholder text 'Enter a search term, for example: Egypt, Rembrandt, window.' and a 'search' button. Below the search bar, there are two tabs: 'Collections' and 'Thesauri'. Under the 'Collections' tab, four items are displayed: 'Joconde' (15,985 concepts), 'IconClass' (47,500+ concepts), 'RKD Artists' (331,455 concepts), and 'AAT' (31,015 concepts). Each item has a small thumbnail image. At the bottom of the page, there is a footer with links for 'home', 'disclaimer', 'datacloud', and 'acknowledgments'. The page is powered by 'ClioPatria 1.0 beta 2 (18/12/2008)' and 'SWI Prolog 5.7.5-85-gc57ab80'. The browser's taskbar at the bottom shows several open files, including 'kvvz.pdf', '39_2008_MA_B...', and 'ThoughtLab_da...'. The browser's status bar at the bottom indicates 'Fertig' and 'Entfernen'.



Le Nuage derrière l'exemple



Un Exemple (3)



The screenshot shows a web browser window displaying the Europeana search engine. The address bar shows the URL `http://eculture.cs.vu.nl/europeana/session/search`. The browser's toolbar includes navigation buttons (Zurück, Vor, Neu laden, Startseite) and a search bar with the text "Marlies Olensky". The browser's menu bar shows various search engines (Stumble!, I like it!, Send to, Channels, All, Favorites, Friends, Tools). The browser's tabs show several open pages, including "Kurs: ...", "Europ...", "Zoho ...", "Vorsta...", "Zoho ...", "search", "Institu...", "Regist...", "Prof. ...", "Kurs: ...", and "Untitled...".

The Europeana search engine interface features a large, stylized "e" logo with a face inside, and the text "europeana think culture". Below the logo are links for "home", "disclaimer", "datacloud", and "acknowledgments".

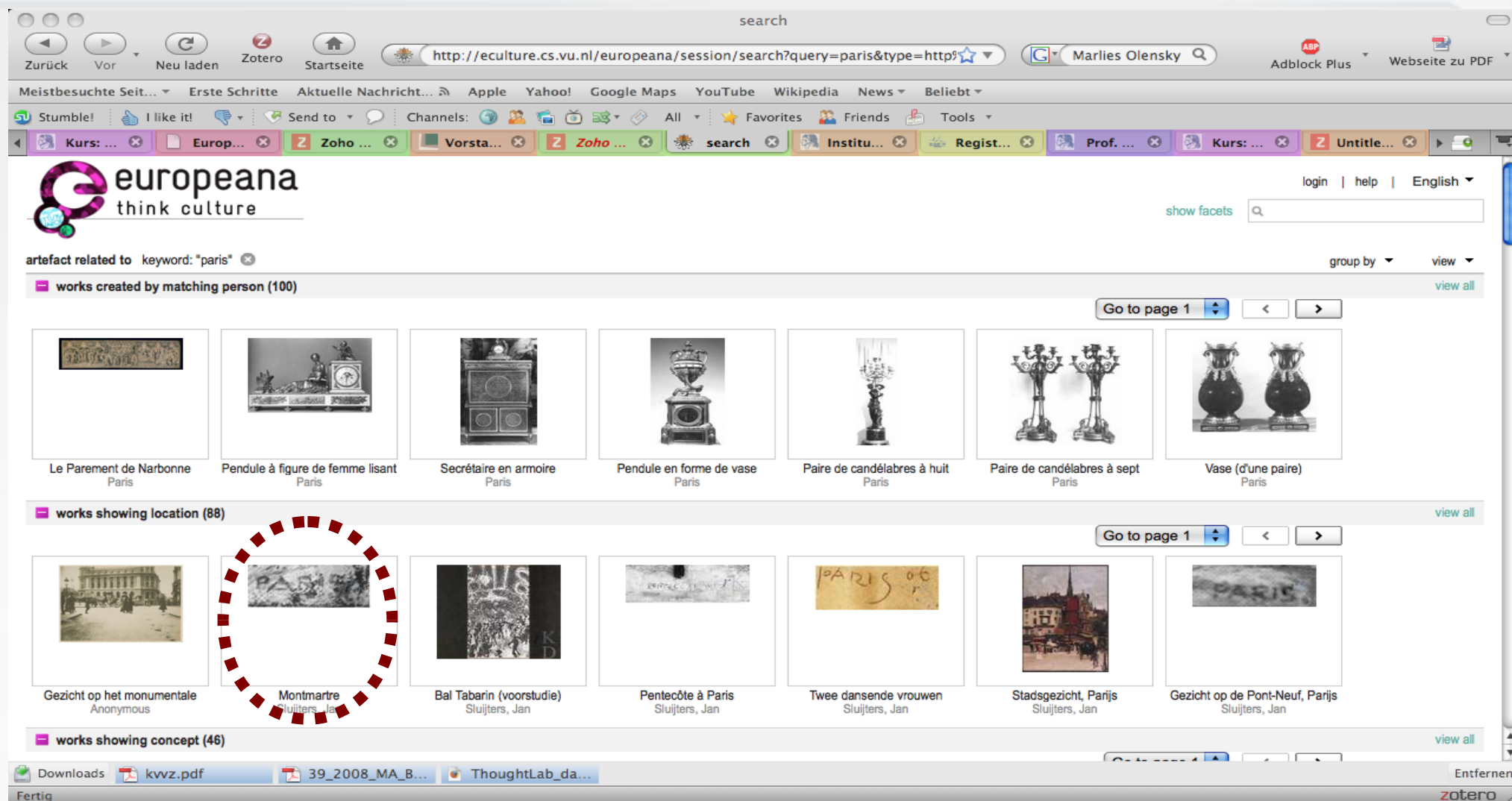
The search results are displayed in a list format, categorized by type:

- artefact** (view all 233 results):
 - Paris
 - Paris
 - Oordeel van Paris
- concept** (view all 369 results):
 - Paris
 - Ile-de-France
 - Paris
 - Lone-Star State
 - Paris
 - plant genus
- location** (view all 39 results):
 - Paris
 - Paris
 - Little Paris
- other** (view all 84 results):

On the right side of the search results, there is a thumbnail image of the Mona Lisa, labeled "Louvre" with "11,327 artworks".

The browser's status bar at the bottom shows the "Downloads" folder with files "kvvz.pdf", "39_2008_MA_B...", and "ThoughtLab_da...". The "Fertig" button is visible on the left, and the "Entfernen" button is on the right. The "zotero" logo is also present in the bottom right corner.

Un Exemple (4)

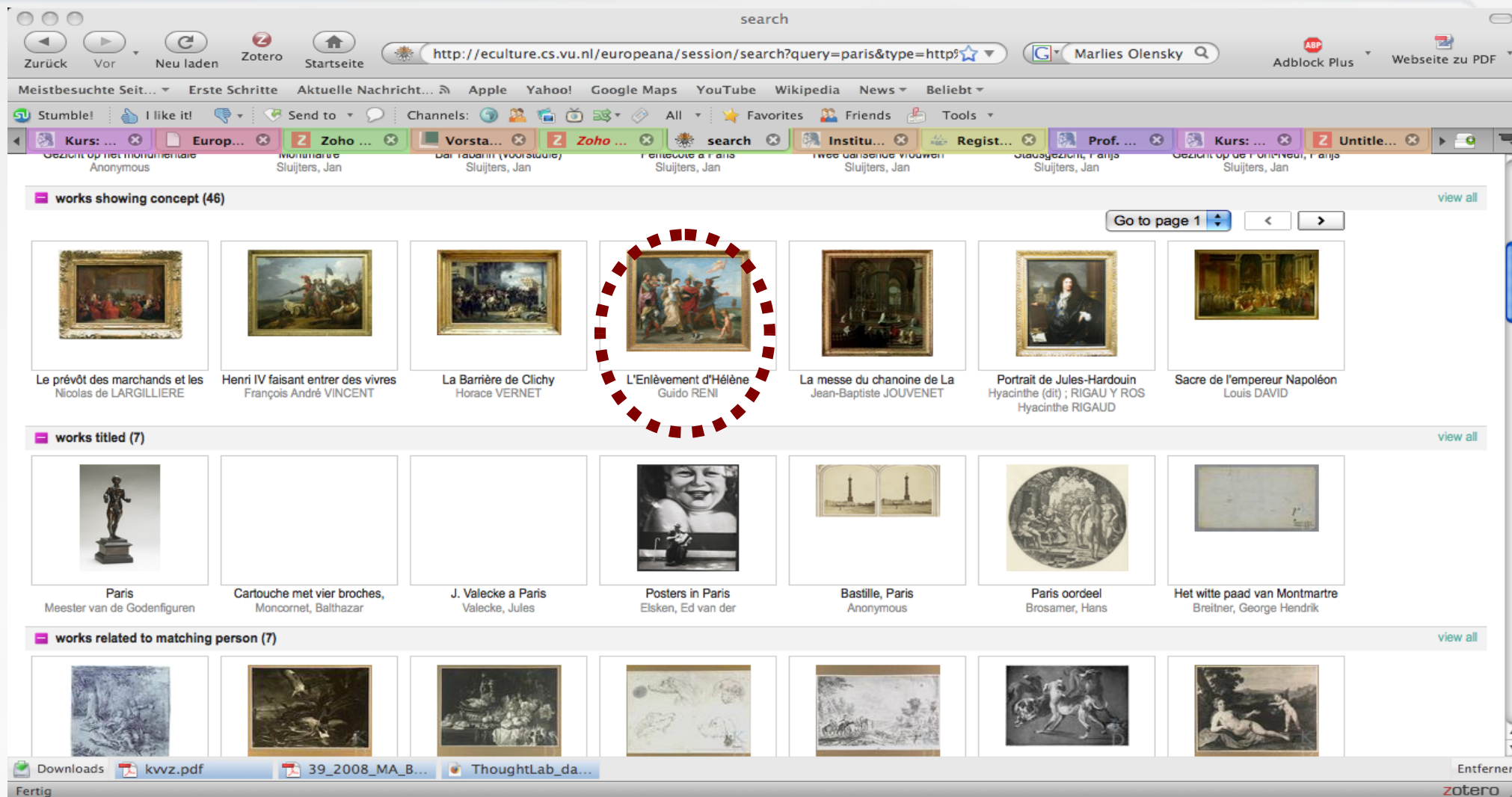


The screenshot shows a web browser window displaying the Europeana website. The search bar at the top contains the URL <http://eculture.cs.vu.nl/europeana/session/search?query=paris&type=http>. The search results are categorized into three sections:

- works created by matching person (100)**: This section displays a grid of seven items, each with a thumbnail image and a caption. The items are:
 - Le Parement de Narbonne (Paris)
 - Pendule à figure de femme lisant (Paris)
 - Secrétaire en armoire (Paris)
 - Pendule en forme de vase (Paris)
 - Paire de candélabres à huit (Paris)
 - Paire de candélabres à sept (Paris)
 - Vase (d'une paire) (Paris)
- works showing location (88)**: This section displays a grid of seven items, each with a thumbnail image and a caption. The items are:
 - Gezicht op het monumentale (Anonymous)
 - Montmartre (Sluijters, Jan) - This item is highlighted with a red dashed circle.
 - Bal Tabarin (voorstudie) (Sluijters, Jan)
 - Pentecôte à Paris (Sluijters, Jan)
 - Twee dansende vrouwen (Sluijters, Jan)
 - Stadsgezicht, Parijs (Sluijters, Jan)
 - Gezicht op de Pont-Neuf, Parijs (Sluijters, Jan)
- works showing concept (46)**: This section is partially visible at the bottom of the screen.

The browser window also shows various tabs and a taskbar at the bottom with files like 'kvvz.pdf' and 'ThoughtLab_da...'.

Un Exemple (5)



search

http://eculture.cs.vu.nl/europeana/session/search?query=paris&type=http

Marlies Olensky

Meistbesuchte Seit... Erste Schritte Aktuelle Nachricht... Apple Yahoo! Google Maps YouTube Wikipedia News Beliebt

Stumble! I like it! Send to Channels: All Favorites Friends Tools

Kurs: ... Europ... Zoho ... Vorsta... Zoho ... search Institu... Regist... Prof. ... Kurs: ... Z Untitle...

works showing concept (46)

Go to page 1

view all

Le prévôt des marchands et les Nicolas de LARGILLIERE

Henri IV faisant entrer des vivres François André VINCENT

La Barrière de Clichy Horace VERNET

L'Enlèvement d'Hélène Guido RENI

La messe du chanoine de La Jean-Baptiste JOUVENET

Portrait de Jules-Hardouin Hyacinthe (dit) ; RIGAU Y ROS Hyacinthe RIGAUD

Sacre de l'empereur Napoléon Louis DAVID

works titled (7)

view all

Paris Meister van de Godenfiguren

Cartouche met vier broches, Moncornet, Balthazar

J. Valecke a Paris Valecke, Jules

Posters in Paris Elksen, Ed van der

Bastille, Paris Anonymous

Paris oordeel Brosamer, Hans

Het witte paad van Montmartre Breitner, George Hendrik


works related to matching person (7)

view all

Downloads kvvz.pdf 39_2008_MA_B... ThoughtLab_da...

Entfernen zotero

Un Exemple (6)



L'ENLEVEMENT D'HELENE

<http://e-culture.multimedien.nl/ns/loouvre/works/14557>

Property	Value
<u>Creator</u>	Jean TASSEL; Jean TASSEL
<u>Location</u>	France; Ile-de-France; Paris; 2 e étage; Couloir Marengo; Peintures; Salle 30; Sully
<u>Style/Period</u>	France
<u>Subject</u>	Hélène; Pâris myth; enlèvement; fond de paysage; pyramide; scène mythologique; soldat; soldat; élément d'architecture; peintures; see all
<u>Technique</u>	toile; peinture à l'huile
<u>Title</u>	L'ENLEVEMENT D'HELENE; L'enlèvement d'Hélène
<u>Type</u>	peinture; tableau; Département des Peintures; TASSEL Jean : L'ENLEVEMENT D'HELENE

links

- [original page](#)
- [full view](#)
- [annotate](#)

EMENT DE PARIS

LE JUGEMENT DE PARIS
Jean Antoine WATTEAU

L'ENLEVEMENT D'HELENE

Un Exemple (7)

Pâris myth

<http://e-culture.multimedien.nl/ns/joconde/Pâris myth>






links

- [full view](#)
- [annotate](#)

Property	Value	Source
<u>type</u>	<ul style="list-style-type: none"> • Person • Concept 	<ul style="list-style-type: none"> • Joconde-Persons.rdf • joconde.rdf
<u>alternative label</u>	• Alexandre	• joconde.rdf
<u>has broader</u>	• homme de la mythologie gréco-romaine	• joconde.rdf
<u>is in scheme</u>	• http://e-culture.multimedien.nl/ns/joconde/	• joconde.rdf
<u>preferred label</u>	• Pâris myth	• joconde.rdf

used as metadata in:

Property	Subject	Source
<u>Depicted subject</u>	 <ul style="list-style-type: none"> • LE JUGEMENT DE PARIS  <ul style="list-style-type: none"> • LE JUGEMENT DE PARIS  <ul style="list-style-type: none"> • L'ENLEVEMENT D'HELENE 	<ul style="list-style-type: none"> • louvre.joconde_works.annotations.rdf

	 <ul style="list-style-type: none"> • LE REVE DE PARIS 	
<u>differentFrom</u>	• Paris	• joconde.rdf
<u>has related</u>	• pomme	• joconde.rdf

Adam & Eve

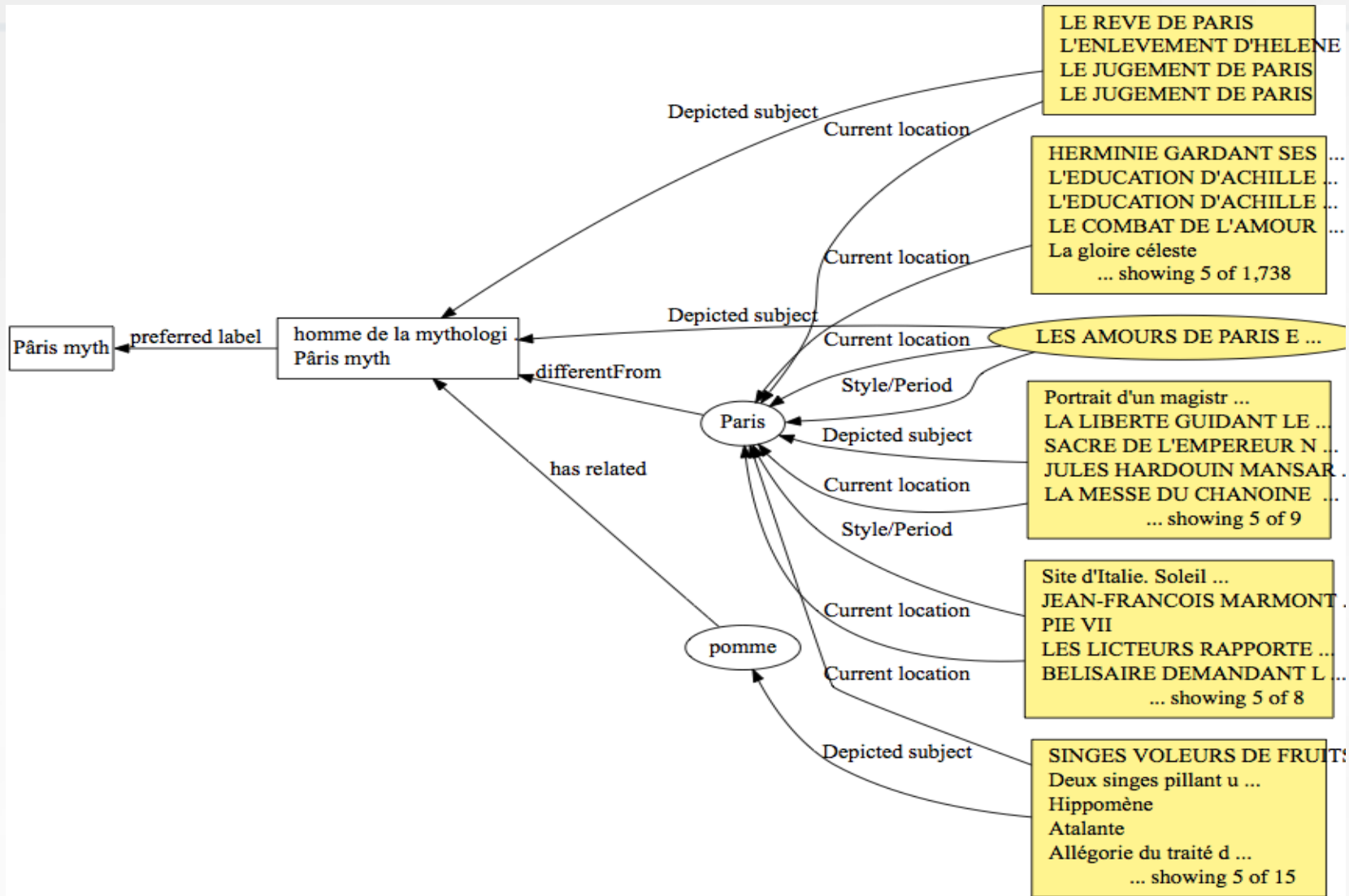


... et une visualisation

'Admin' > 'Display search graphs'

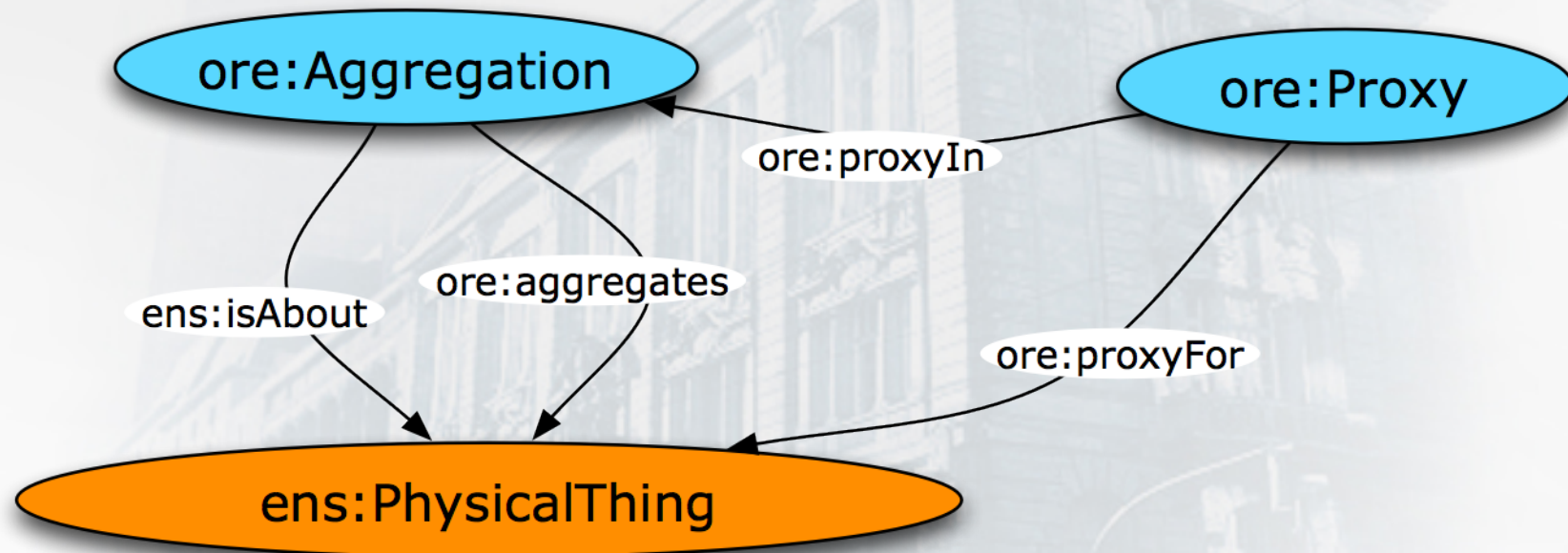
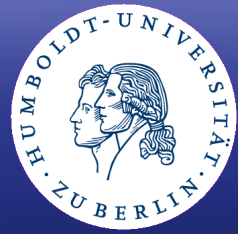
Mythe de Pâris („Paris Myth, 100 mesures, Threshold=0.4)

... et hors ligne

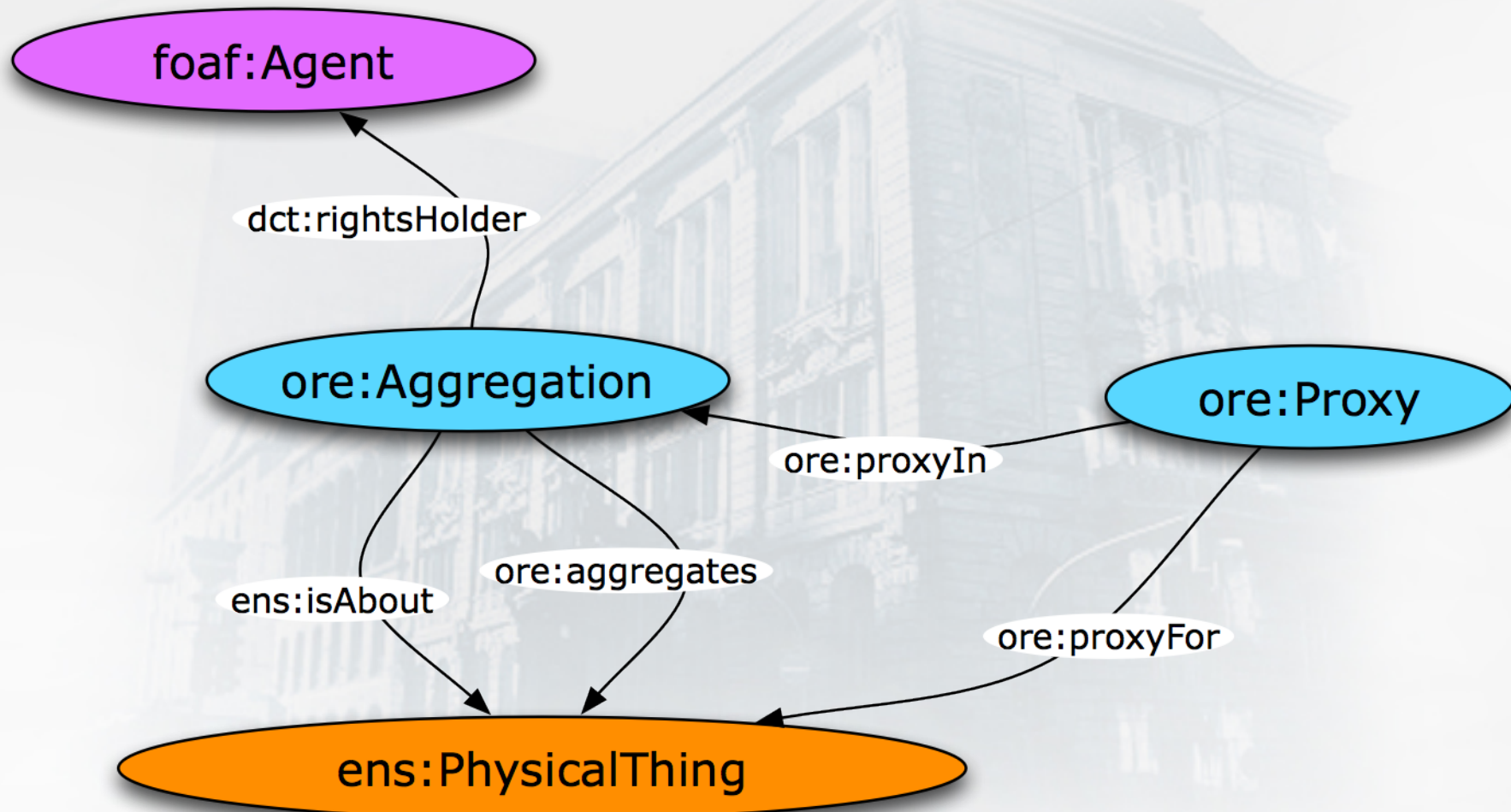
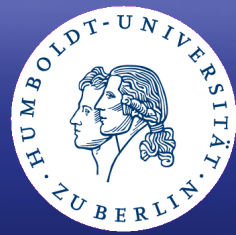


Modèle de Données Europeana (Europeana Data Model - EDM)

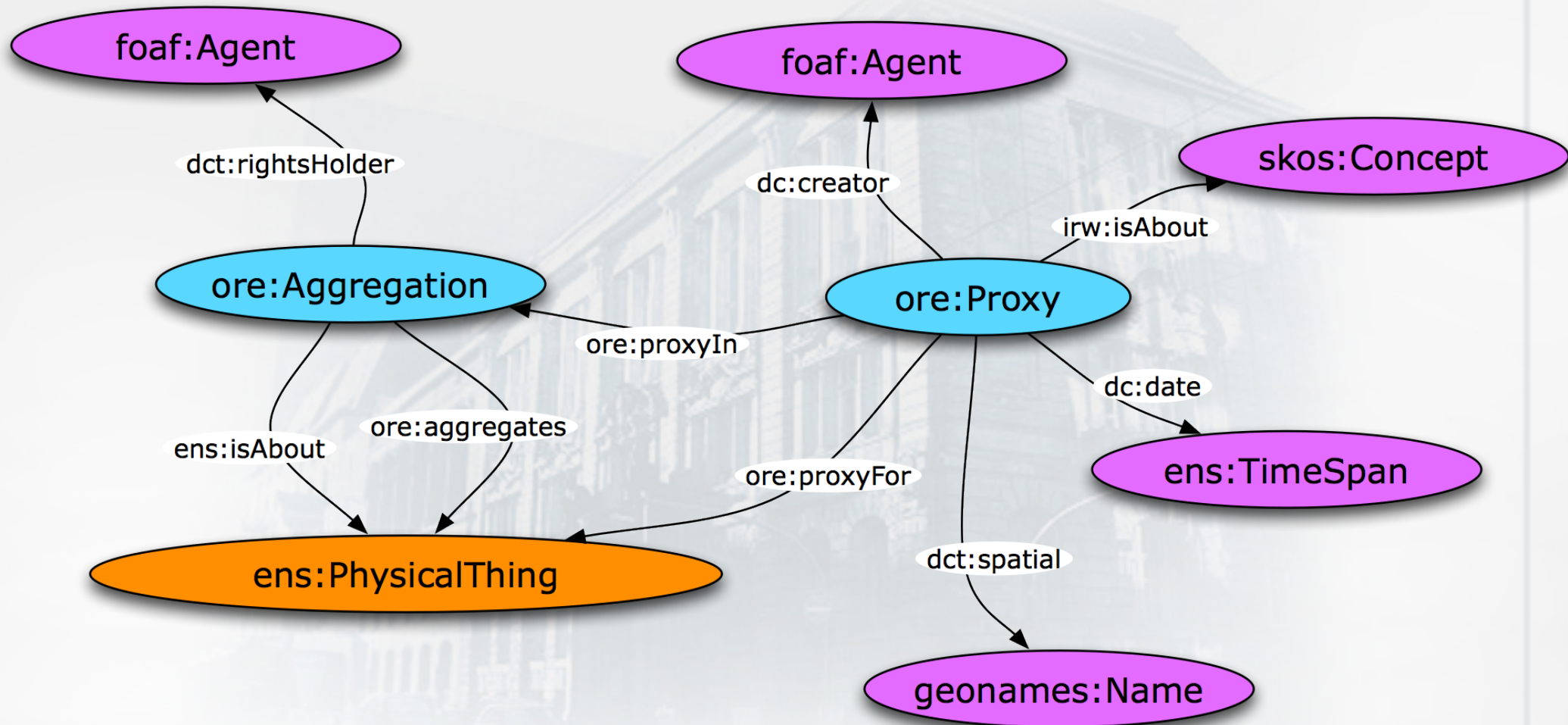
Représentation élémentaire d'un objet utilisant classes et propriétés



Contextualisation sémantique de l'aggregation ...



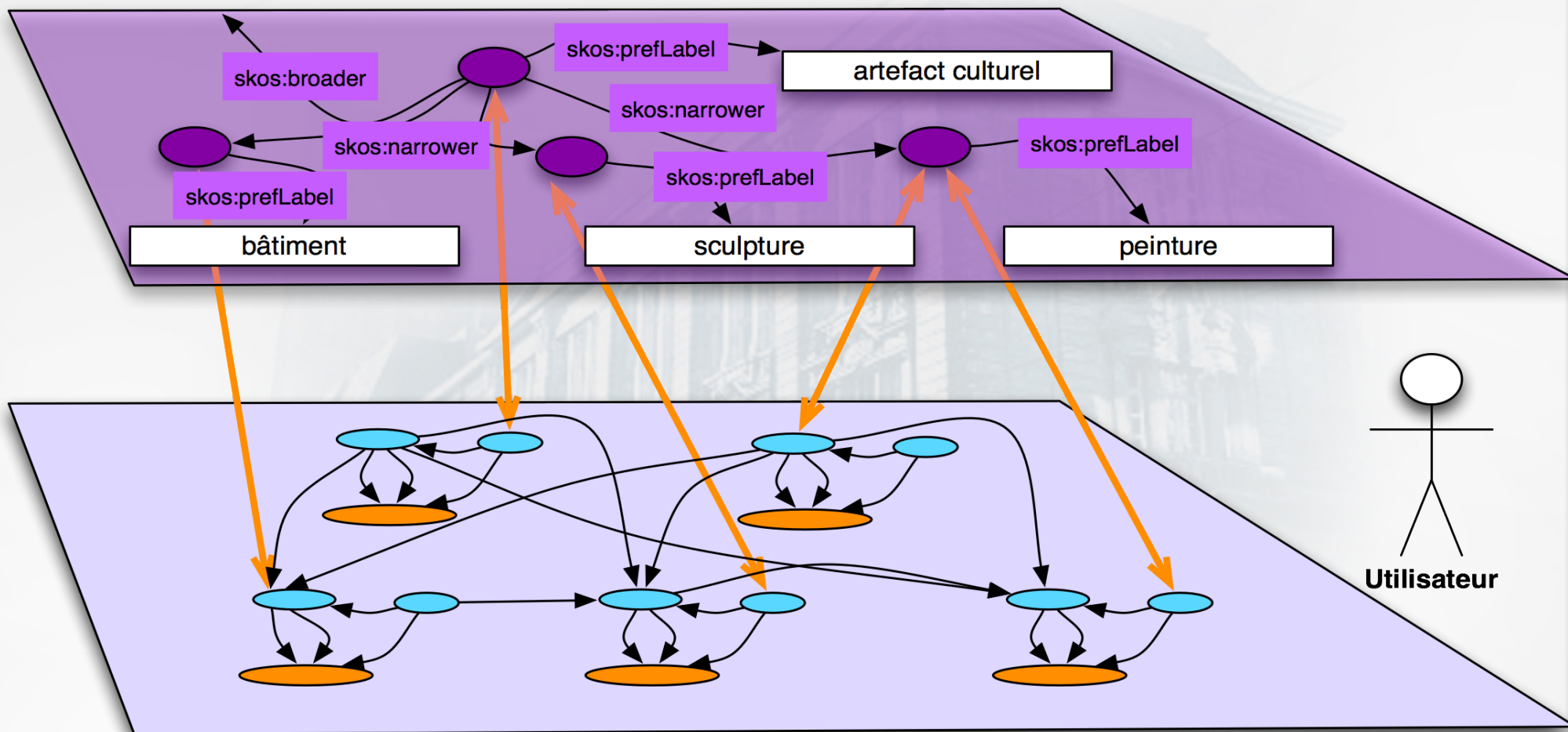
... et du Proxy



Contextualisation sémantique dans Europeana

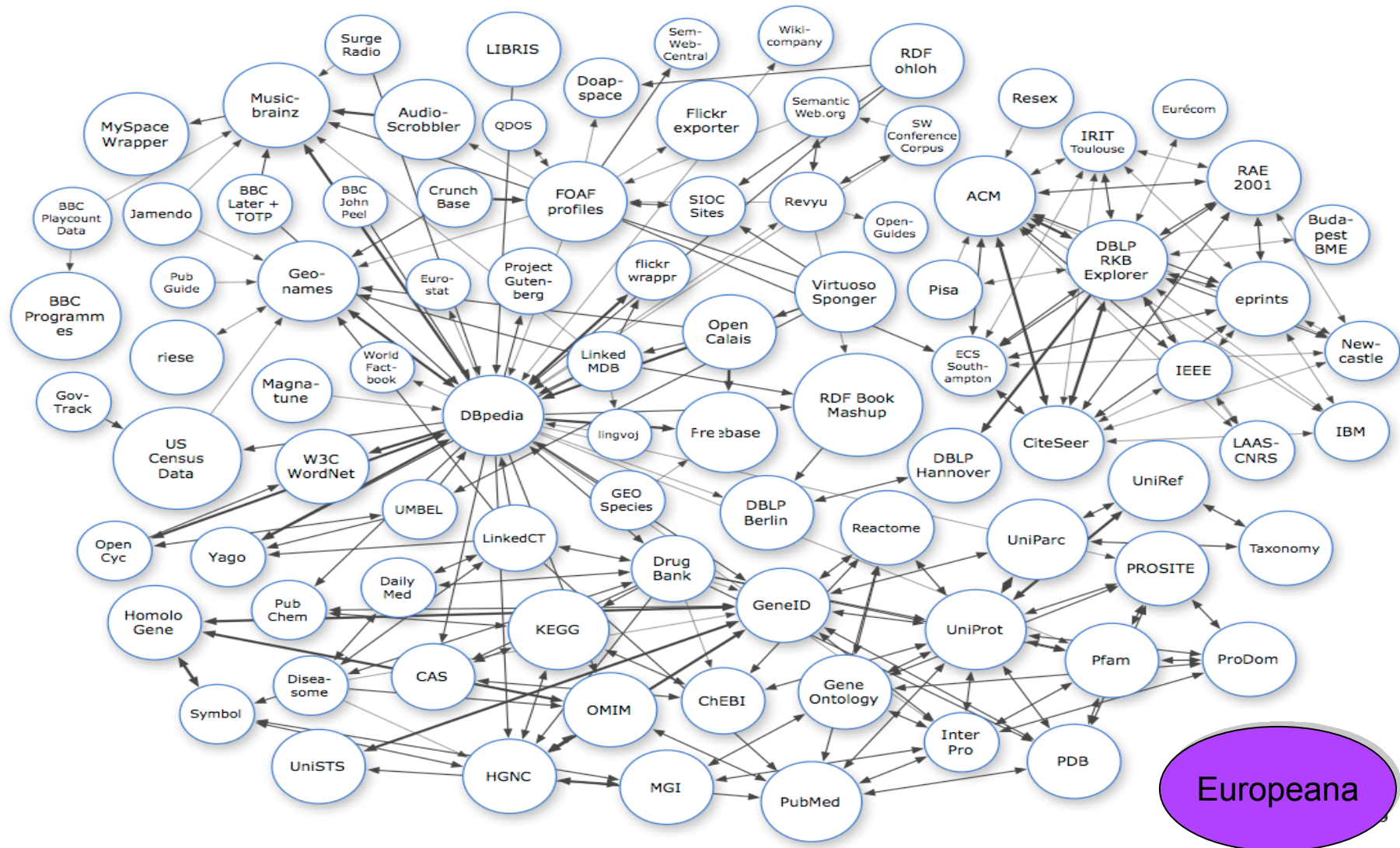
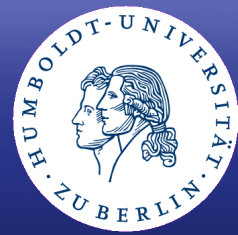


Réseau Sémantique

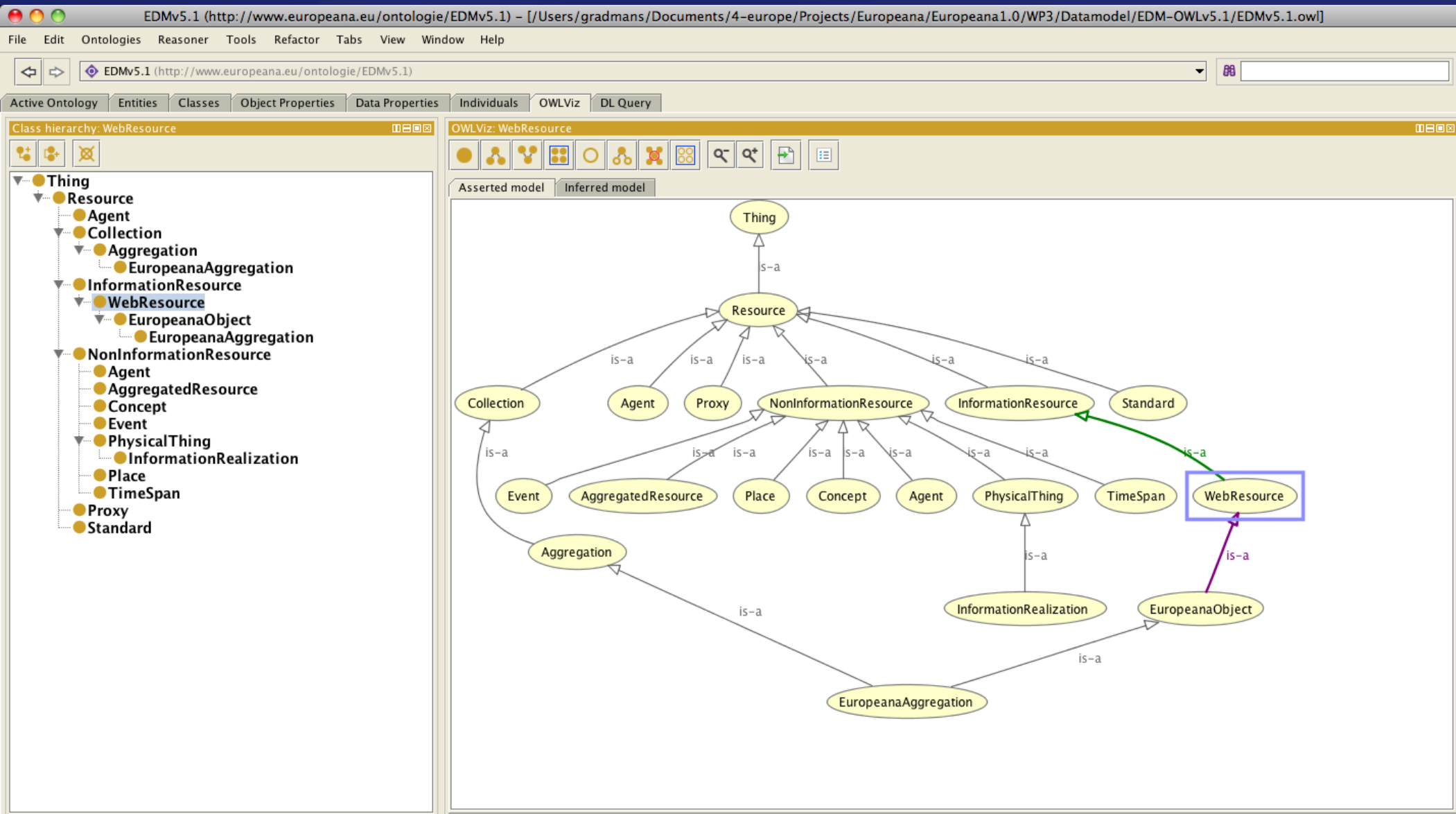


Représentations d'objets liés

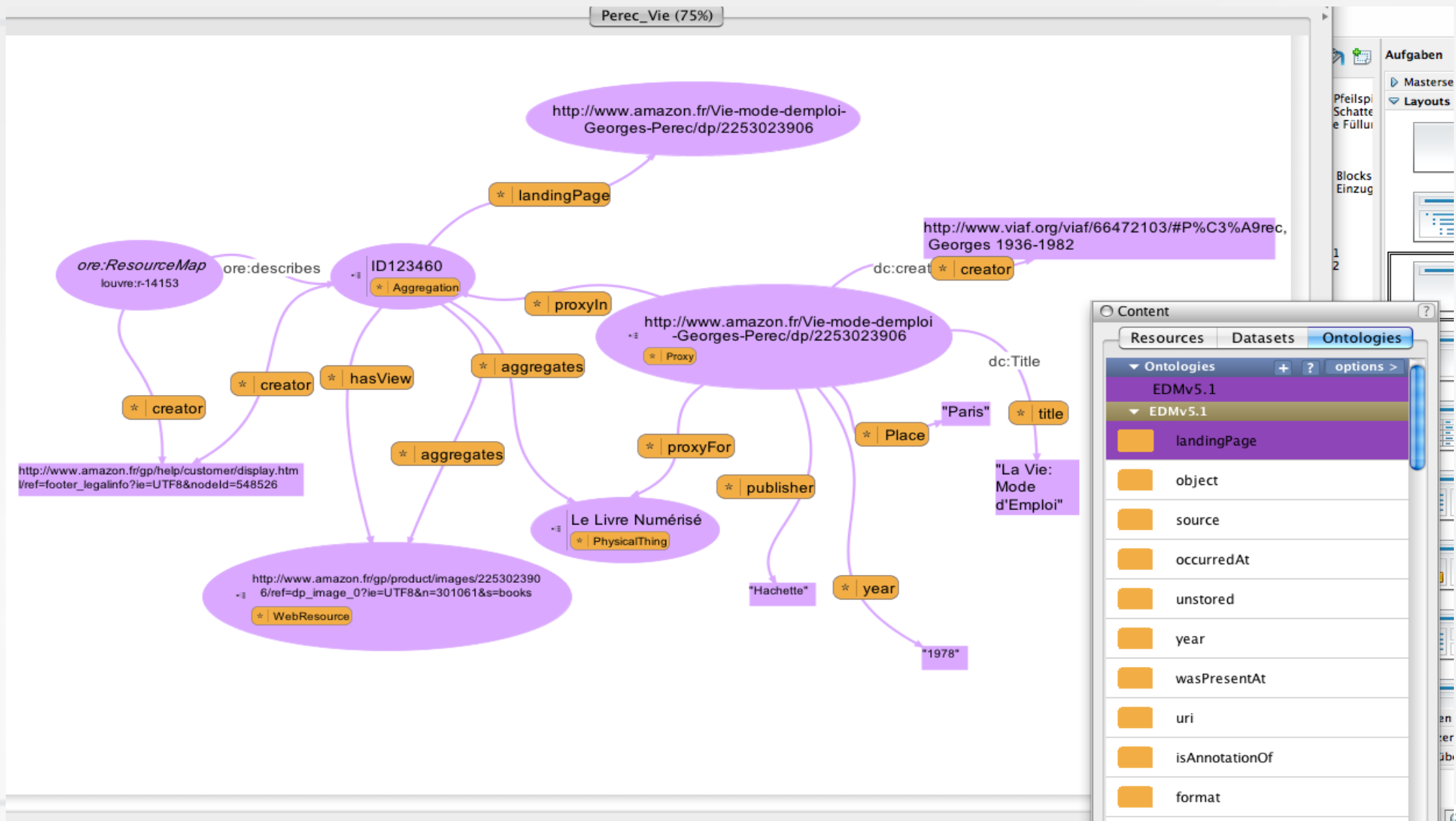
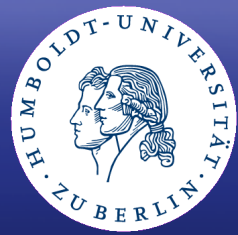
Et tout cela s'intègre dans le nuage croissant des données liées



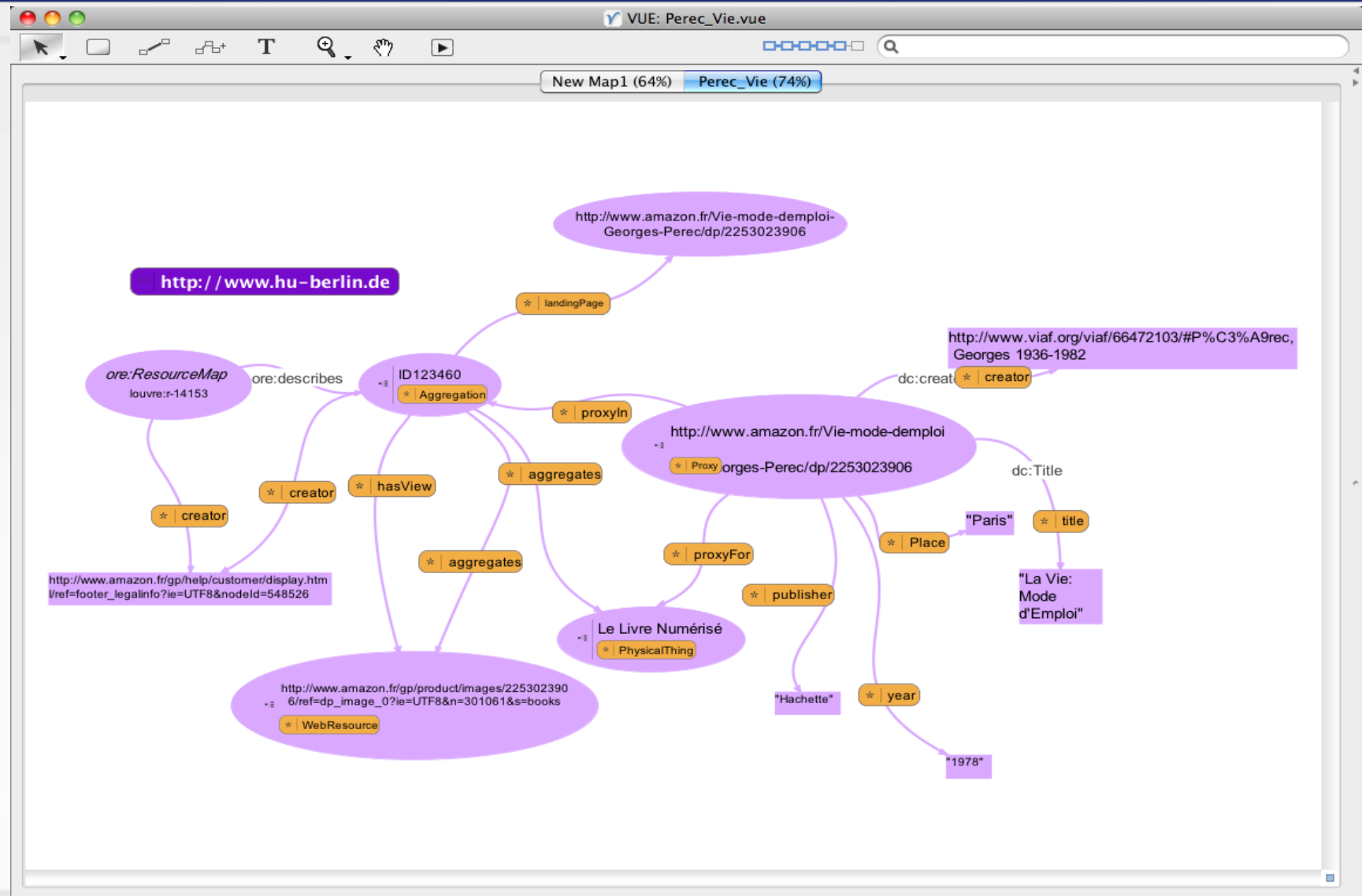
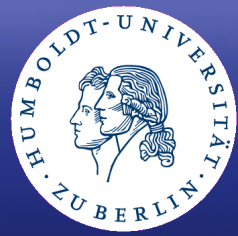
L'ontologie EDM ...



... et son utilisation dans un environnement des travail visuel (VUE)



Enrichissement du graphe (1)



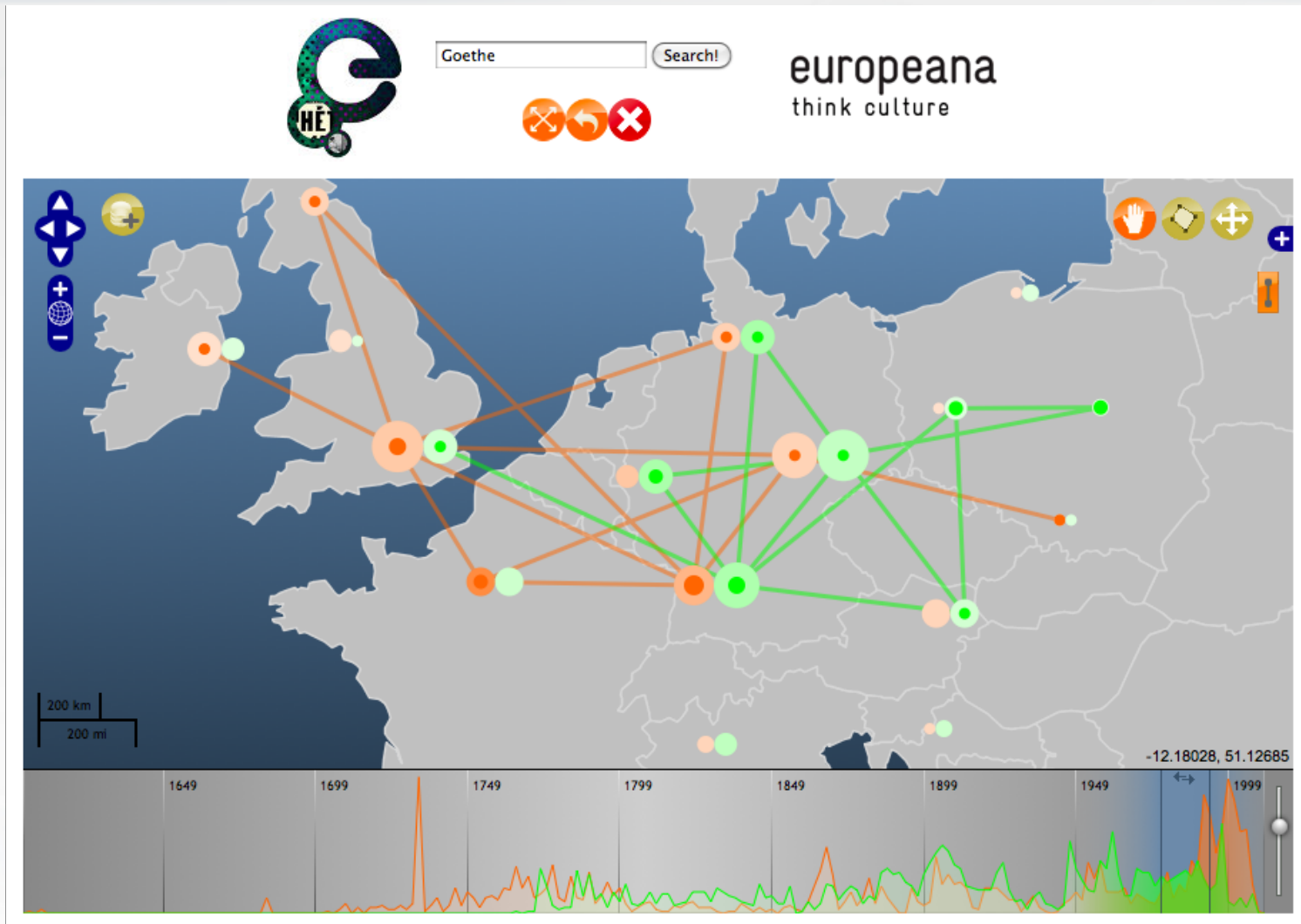
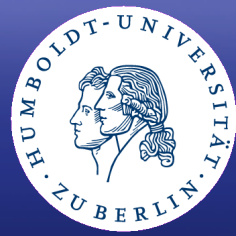




Vers une interface spatio-temporelle pour Europeana (et d'autres)

(Travaux de Ralf Stockmann, Christian Mahnke (Göttingen) et de Stefan Jänicke, Geric Scheuermann (Leipzig) effectués dans EuropeanaConnect WP3)

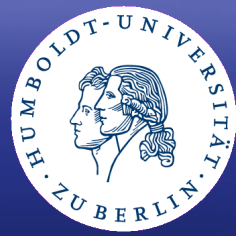
Goethe & Shakespeare



Cadre technologique

- OpenLayers
- Simile Timeline/Timeplot
- GeoNames (Geoparser...)
- Explorer Canvas (Google)
- GeoServer (OpenStreetmap, Google Maps)
- Google Web Toolkit (GWT)
- KML (XML)

I / O: Keyhole Markup Language (KML)



```
1 <Placemark>
2   <description><![CDATA[<a target="_blank" href="http://flickr.com/photos/89074241@N00/2778705055" title="Tina"><img alt="
3   <name>Tina</name>
4   <Point>
5     <coordinates>-54.47618,-27.873888,0</coordinates>
6   </Point>
7   <TimeStamp>
8     <when>2008-08-20T00:02:31Z</when>
9   </TimeStamp>
10 </Placemark>
11
12 <Placemark>
13   <description><![CDATA[<a target="_blank" href="http://flickr.com/photos/89074241@N00/2778771187" title="Tina e Tinho"><img alt="
14   <name>Tina e Tinho</name>
15   <Point>
16     <coordinates>-54.47618,-27.873888,0</coordinates>
17   </Point>
18   <TimeStamp>
19     <when>2008-08-20T00:27:42Z</when>
20   </TimeStamp>
21 </Placemark>
22
23 <Placemark>
24   <description><![CDATA[<a target="_blank" href="http://flickr.com/photos/61732101@N00/2765247741" title="The cat and the
25   <name>The cat and the bench</name>
26   <Point>
27     <coordinates>1.928465,42.430957,0</coordinates>
28   </Point>
29   <TimeStamp>
30     <when>2008-08-15T19:55:05Z</when>
31   </TimeStamp>
32 </Placemark>
33
```



Sources de données et visualisation



flickr

twitter

Research Project
Linked Open Data

Couche Sémantique

Connecteur

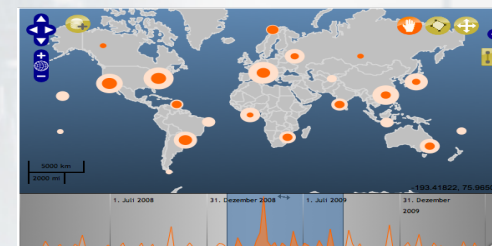
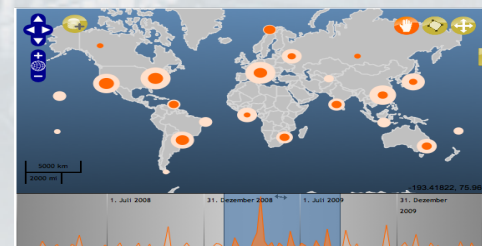
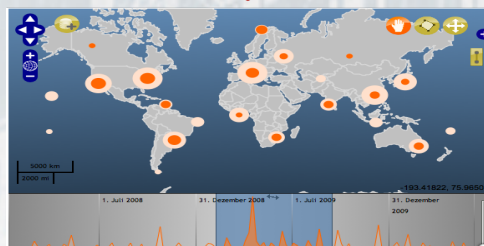
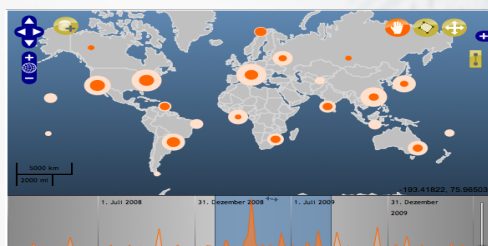
Connecteur

KML

KML

KML

KML



Nouveaux modes d'accès à l'information / Prof. Dr. Stefan Gradmann

Paris: iExpo 2010

30





3,121 uploads in [the last minute](#) • 160,129 things tagged with [morning](#) • 2.7 million things [geotagged](#) this month • [Take the tour](#)

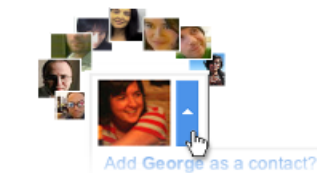
[Sign In](#)

Create Your Account

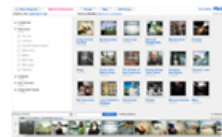
Only takes a moment with your Yahoo! ID

**Share your photos.
Watch the world.**

AND
VIDEO

 SEARCH


Share & stay in touch



Upload & organize



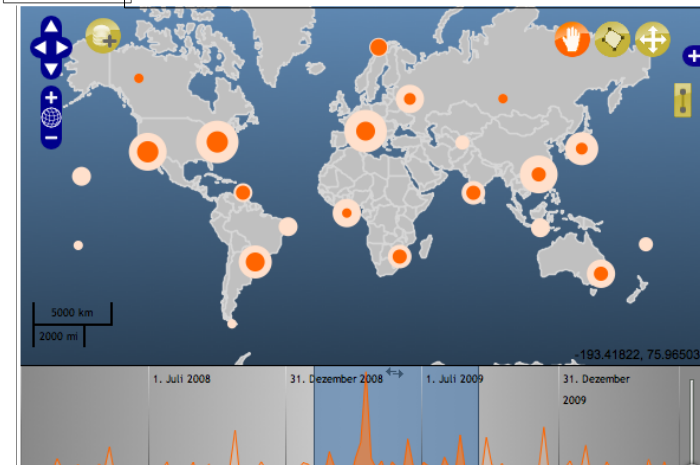
Crop, fix, edit



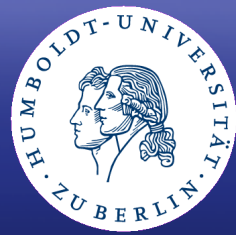
Explore...



Cats on flickr – last 24h



E4D encasté dans WikiPedia



navigation

- Main page
- Contents
- Featured content
- Current events
- Random article

search

interaction

- About Wikipedia
- Community portal
- Recent changes
- Contact Wikipedia
- Donate to Wikipedia
- Help

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Permanent link
- Cite this page

print/export

- Create a book
- Download as PDF
- Printable version

[article](#) [discussion](#) [view source](#) [history](#)

Wikipedia's getting a new look. [Learn more.](#)

[Hide]

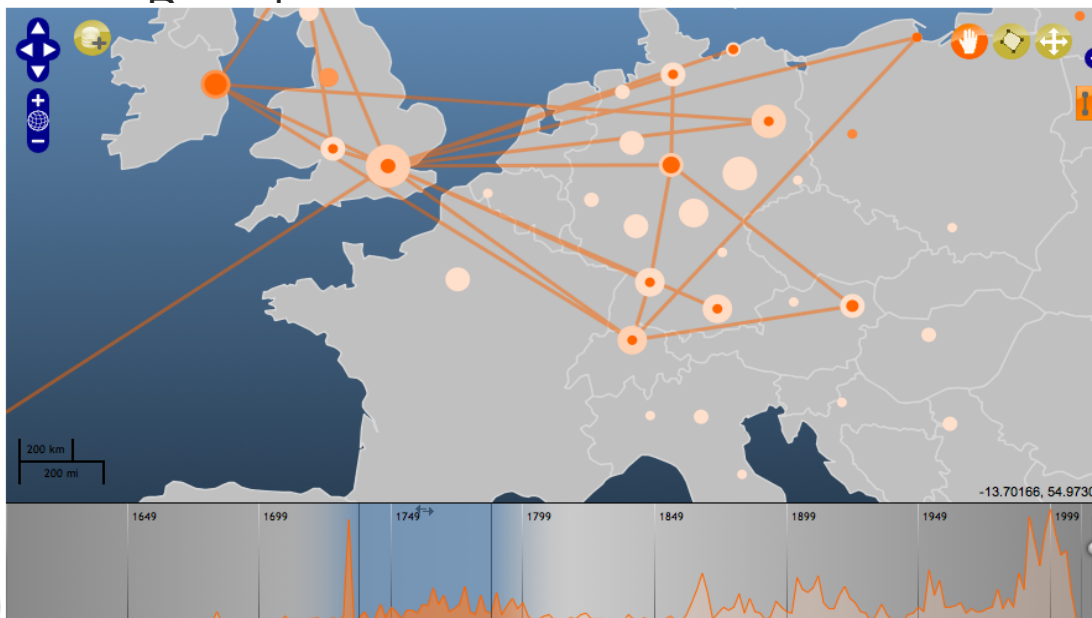
William Shakespeare

From Wikipedia, the free encyclopedia

This article is about the poet and playwright. For other persons of the same name, see [William Shakespeare \(disambiguation\)](#). For other uses of "Shakespeare", see [Shakespeare \(disambiguation\)](#).

William Shakespeare (baptised 26 April 1564; died 23 April 1616)^[a] was an [English poet](#) and [playwright](#), widely regarded as the greatest writer in the [English language](#) and the world's pre-eminent dramatist.^[1] He is often called England's [national poet](#) and the "Bard of Avon".^{[2][b]} His surviving works, including some [collaborations](#), consist of 38 [plays](#),^[c] 154 [sonnets](#), two long [narrative poems](#), and several other poems. His plays have been translated into every major living language and are performed more often than those of any other playwright.^[3]

E4D Shakespeare – Library



William Shakespeare



The Chandos portrait, artist and authenticity unconfirmed. National Portrait Gallery, London.

Born baptised 26 April 1564 (birth date unknown)
Stratford-upon-Avon,
Warwickshire, England

Died 23 April 1616 (aged 52)
Stratford-upon-Avon,
Warwickshire, England

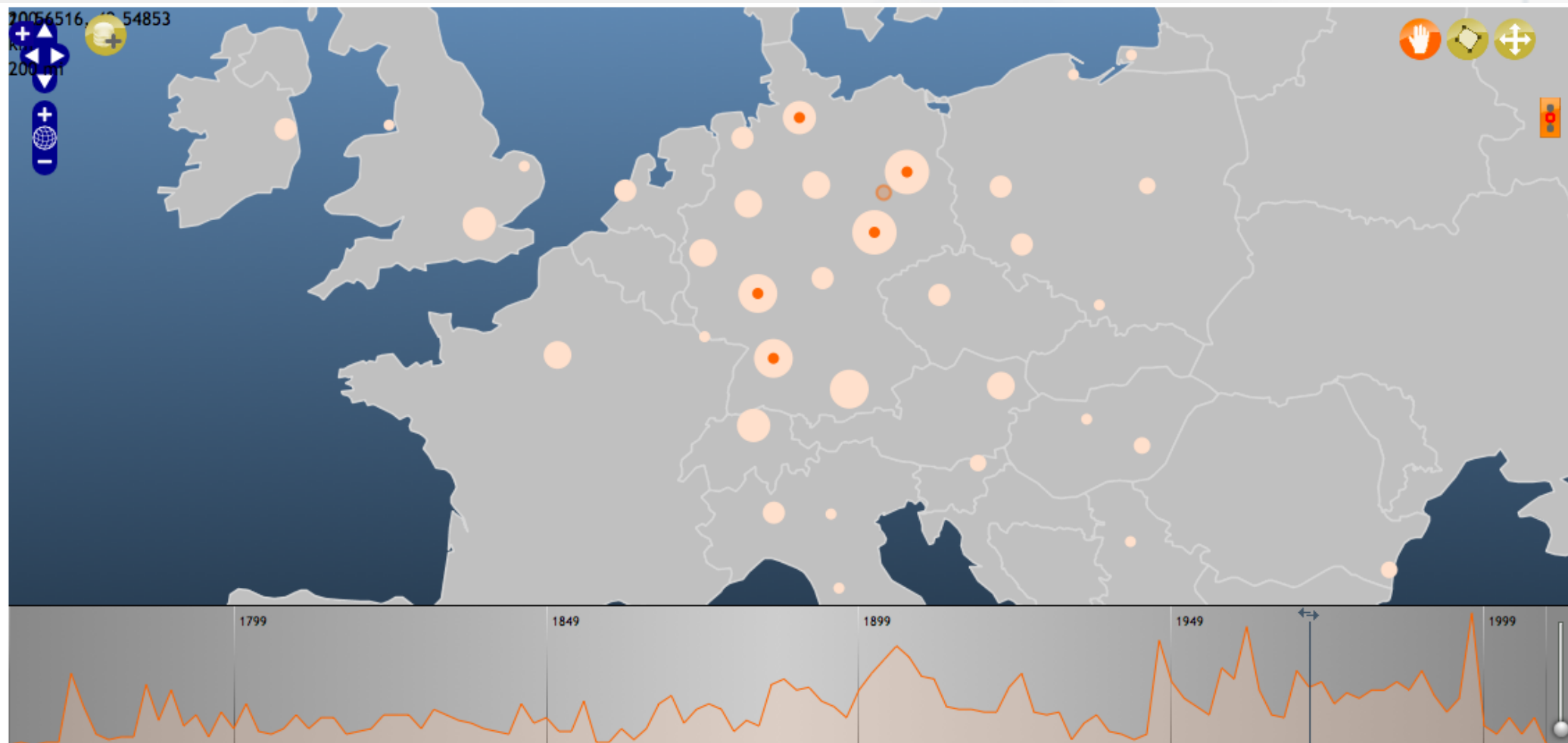
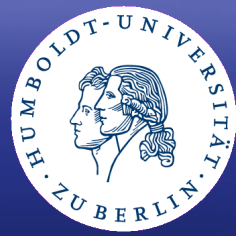


Nouveaux modes d'accès à l'information / Prof. Dr. Stefan Gradmann

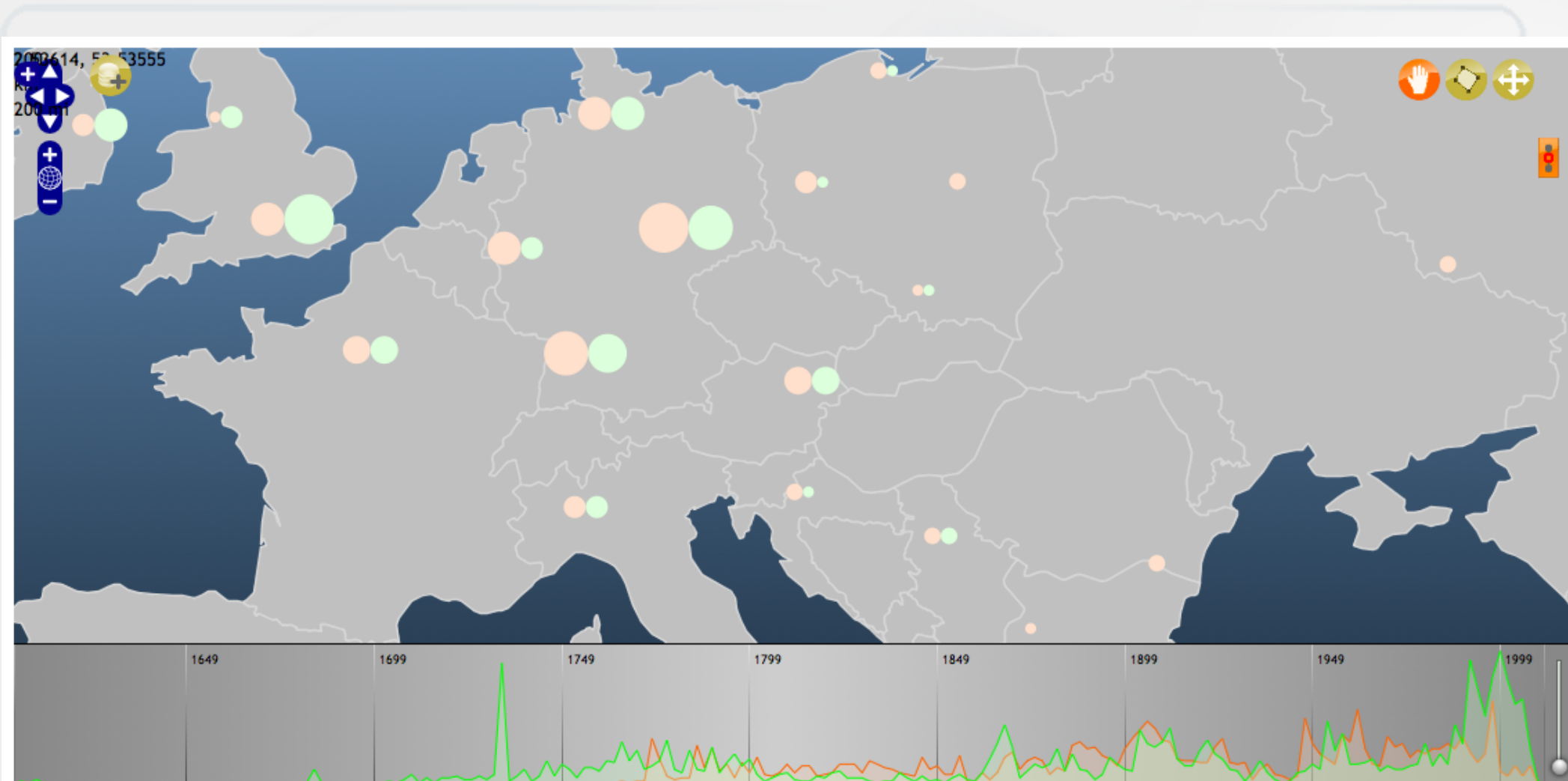
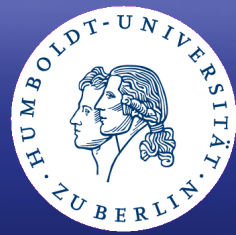
Paris: iExpo 2010



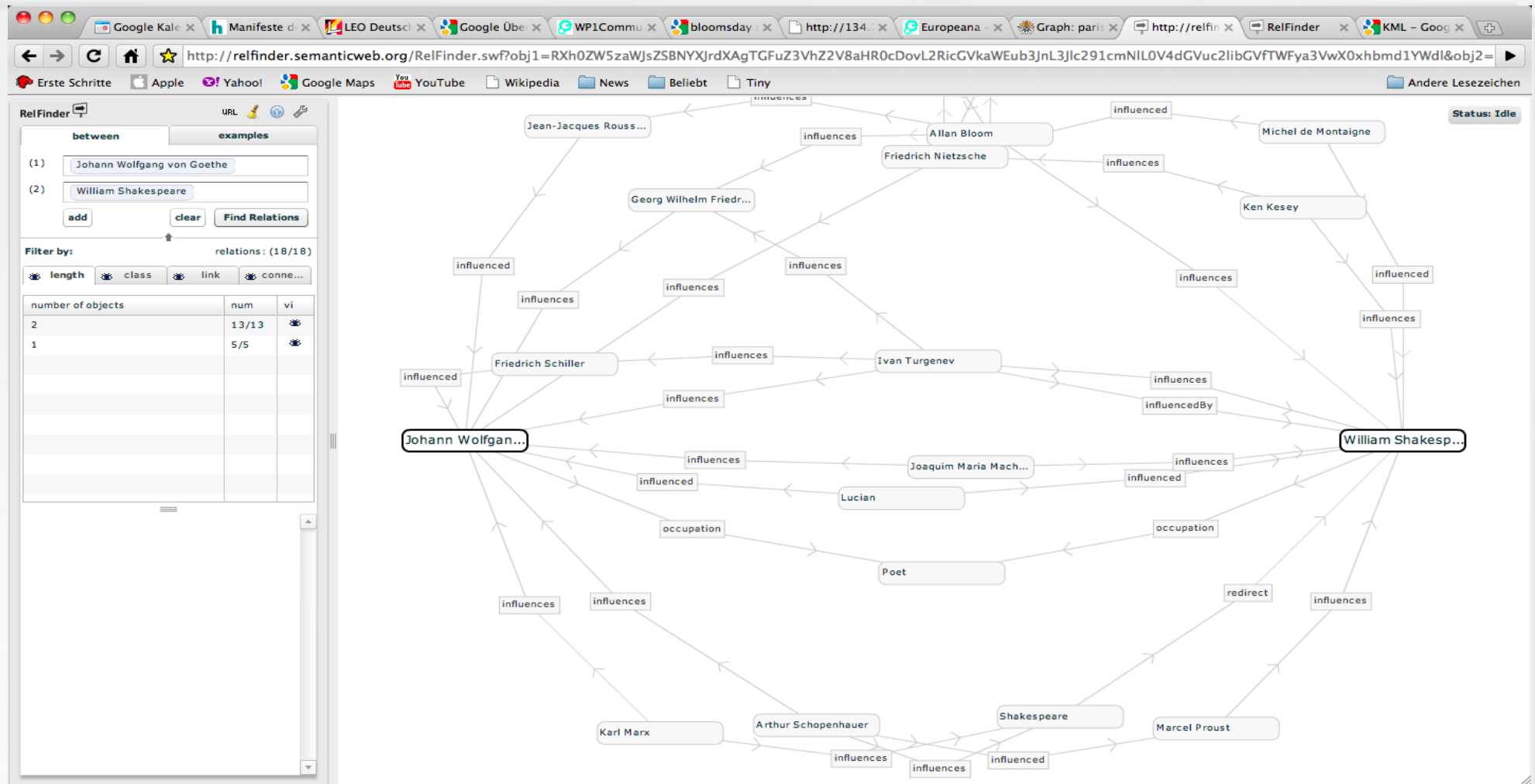
Goethe



Goethe et Shakespeare



... et dans RelFinder



Conclusion

- 3 types de visualisation sont expérimentées dans Europeana
 - Visualisation des données liées (ThoughtLab)
 - Méta-visualisation dans le contexte de modélisation EDM (VUE)
 - Visualisation spatio-temporelle (E4D)
- L'intégration et la création d'une expérience utilisateur cohérente restent à faire ...
- Cela nécessite l'établissement des priorités: nous vivons effectivement « l'heure des choix »!
- Quelques liens:
 - <http://vue.tufts.edu/>
 - <http://eculture.cs.vu.nl/europeana/session/search>
 - <http://refinder.semanticweb.org/refinder.html>
- Et merci de votre attention!

Conclusion

- 3 types de visualisation sont expérimentées dans Europeana
 - Visualisation des données liées (ThoughtLab)
 - Méta-visualisation dans le contexte EDM (VUE)
 - Visualisation spatio-temporelle (E4D)
- L'intégration et la création d'une expérience utilisateur cohérente restent à faire ...
- Cela nécessite l'établissement des priorités: nous vivons effectivement « l'heure des choix »!
- Quelques liens:
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